

Amendments to the claims:

1. (currently amended) A multiple measurement and memory electronic ear thermometer, comprising:

a keypad unit including an activation key and a selection key, wherein when the activation key is pressed, the keypad unit is operative to generate [[an]] a first input signal and when the selection key is pressed, the keypad is operative to generate either a second input signal for selecting the number of users or a third input signal for selecting one of the users;

a microprocessor in electric communication with the keypad unit, the microprocessor being operative to generate a first control signal in response to the first input signal, a third control signal in response to the second input signal and a fourth control signal in response to the third input signal;

an ear temperature measuring unit, operative to measure ear temperature from a [[first]] selected user in response to the first control signal generated by the microprocessor and convert the ear temperature into an electric signal sent to the microprocessor to generate a second control signal;

a display unit, operative to display the ear temperature in response to the second control signal; and

a memory unit, being partitioned into ~~a plurality of~~ individual memory sectors for each users, wherein a first the memory sector is operative to save the ear temperature measurement in response to the second control signal and the fourth control signal or late to retrieve the stored ear temperature measurement in response to the fourth control signal.

2. (original) The thermometer of Claim 1, wherein each of the memory sectors is in the form of a queue data structure.

3. (original) The thermometer of Claim 1, wherein the display unit includes a liquid crystal display.

4. (original) The thermometer of Claim 1, wherein the memory unit includes an electrically erasable and programmable read only memory (EEPROM) or a random access memory (RAM).

5. (original) The thermometer of Claim 1, wherein the ear temperature measuring unit is also operative to count time for ear temperature measurement.

6. (canceled)

7. (canceled)

8. (currently amended) The thermometer of Claim [[7]] 1, wherein the keypad unit further includes a key for inputting an identification code for each user.

9. (new) The thermometer of Claim 1, wherein the ear temperature measuring unit is operative to measure ear temperature among different users in response to the actuating of the activation key or the selection key, wherein the ear temperature measurements can be stored, retrieved and displayed to/from the corresponding memory section of each user.

10. (new) A multiple measurement and memory electronic ear thermometer, comprising:  
a keypad unit including an activation key and a selection key, wherein when the activation key is pressed, the keypad unit is operative to generate a first input signal and when the selection key is pressed, the keypad is operative to generate either a second input signal for selecting the number of users or a third input signal for selecting one of the users;

a microprocessor having a real time clock in electric communication with the keypad unit, the microprocessor being operative to generate a first control signal in response to the first input signal, a third control signal in response to the second input signal and a fourth control signal in response to the third input signal;

an ear temperature measuring unit, operative to measure ear temperature from a selected user in response to the first control signal generated by the microprocessor and convert the ear temperature into an electric signal sent to the microprocessor to generate a second control signal;  
a display unit, operative to display the ear temperature and a measuring time from the real time clock in response to the second control signal; and

a memory unit, being partitioned into individual memory sectors for each users, wherein the memory sector is operative to save the ear temperature measurement and the measuring time in response to the second control signal and the fourth control signal or late to retrieve and display the stored ear temperature measurement and the measuring time in response to the fourth control signal.

11. (new) The ear thermometer claimed as claim 10, wherein the display unit can display a user indemnification with the ear temperature measurement and the measuring time.